

Ruhul H. Kuddus, Ph.D.
(Curriculum Vitae)

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Personal Web Site: <http://ruhulkuddus.com/wordpress/>

EDUCATION:

Ph.D. Molecular Genetics and Biochemistry (1993), University of Pittsburgh, Pittsburgh, Pennsylvania, USA

M.S. Biology (1987), George Mason University, Fairfax, Virginia, USA

M.Sc. Zoology with distinction (1979), University of Dhaka, Dhaka, Bangladesh

B.Sc. Biology and Chemistry (1975), Rajendra College, Faridpur, Bangladesh

APPOINTMENTS AND POSITIONS:

2011-2012: US Fulbright Scholar and Visiting Professor, Department of Genetic Engineering and Biotechnology, University of Dhaka, Dhaka 1000 Bangladesh

2008- present: Associate Professor of Biology, Utah Valley University, Orem UT

2003-2008: Assistant Professor of Biology, Utah Valley University, Orem UT

2001-2003: Assistant Professor, Department of Surgery, University of Pittsburgh School of Medicine; Member, Thomas E. Starzl Transplantation Institute and McGowan Institute of Regenerative Medicine, University of Pittsburgh, Pittsburgh, PA

2000-2001: Staff Investigator, Veterans Administration Medical Center, Pittsburgh, PA

1997-2001: Research Instructor of Surgery, Starzl Transplantation Institute (STI) and University of Pittsburgh School of Medicine, Pittsburgh PA

1993-1997: Research Associate, Division of Molecular Virology, University of Pittsburgh School of Medicine, Pittsburgh, PA

1986-1993: Graduate student, George Mason University and the University of Pittsburgh

1979-1985: Officer in Education (Lecturer of Zoology), Ministry of Education, Dhaka, Bangladesh.

HONORS AND AWARDS:

US Fulbright Scholar Award, US Department of State (2011-2112)

Outstanding Service Award, Utah Valley University International Center (2010)

Fellow, Center for the Study of Ethics, Utah Valley University, Orem, Utah (2009)

Faculty Scholar of the Year, Utah Valley University, Orem UT (2007)

Scholar in Residence, American Society for Microbiology (2006-2007)

Fellow, Center for Service and Learning, Utah Valley University (2005)

Dean's Scholar, University of Pittsburgh, Pittsburgh, PA (1989-90)

University Merit Scholar, University of Dhaka, Dhaka, Bangladesh (1976-1978)

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PROFESSIONAL AFFILIATIONS:

American Academy for the Advancement of Science (1992-Present)
American Society for Microbiology (1986-1992, 2003-Present)
American Association for Cancer Research (2012-present)
Utah Academy of Science, Arts and Letters (2004-Present)
Society for Ethics Across the Curriculum (2004-Present)
Bangladesh Development Initiatives, Settle WA (2000-Present)

CERTIFICATIONS:

Certificate of Teaching Excellence, Department of Molecular Genetics and Biochemistry, University of Pittsburgh, Pittsburgh, Pennsylvania (1993)
Bangladesh Civil Service, Education Section (1986)
Certificate on Advanced Science and Technology Teaching, University of Dhaka (1984)

PUBLICATIONS:

Books

Kuddus R, Aftabuddin M, Rashid SM Mahbubur. 2012. *Discovering Biochemical Sciences* (in press).

Kuddus R. 2012. *The Township of Faridpur*, (edited by Laura Hamblin), ISBN: 984-70270-0013-9, Matribhasa Prokash, Dhaka, Bangladesh (86pp)

Kuddus R. 2010. *Microbiology for Health Professions*, ISBN 1-60797-055-4; New York, Linus Publications, Inc. (825pp).

Kuddus R. 2008. *A Laboratory Manual for Introductory Immunology*, ISBN- 978-08-400-2572-2; Orem, UVU Book Store (Second Ed. 106pp).

Kuddus R. 2007. Choto Shahar Faridpur (In Bengali, *The Hamlet of Faridpur*), ISBN 984-700-78-000-1-8, Dhaka, Parijat Prokashani (87pp)

Ali A, **Kuddus R**, Andaleeb SS. 2003. *Development Issues of Bangladesh II*, ISBN 984-05-1657-4; Dhaka, University Press Ltd. (491pp).

Ali A, Islam MF, **Kuddus R**. 1996. *Development Issues of Bangladesh*, ISBN 984-05-1372-9; Dhaka, University Press Ltd. (409pp).

Newspaper Articles

Kuddus R. Abhibashider prottabaratn (in Bengali, Return of the Expatriates), Daily Jugantor, (a subeditorial) May 31, 2012.
<http://www.bangladeshnews24.com/jugantor/2012/05/31/41514.htm>

Kuddus R. Bangladeshe joiboprojuktur shambhabana (in Bengali, The potentials of biotechnology in Bangladesh) (an editorial). Daily Jugantor, Dhaka. March 16, 2012.
<http://www.bangladeshnews24.com/jugantor/2012/03/16/29796.htm>

Kuddus R, Ahsan N. Pprissana hat, shustho jibon (In Bengali, Clean hands for good health, a feature article). Daily Jugantor, Dhaka; January 21, 2012.
<http://www.bangladeshnews24.com/jugantor/2012/01/21/21006.htm>

Ahmed M, **Kuddus R**. Human organ trade (an opinion editorial), Daily Star (Dhaka, Bangladesh), October 11, 2011. <http://www.thedailystar.net/newDesign/news-details.php?nid=205958>

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- Aftab Uddin M, **Kuddus R.** Biosafety and biosecurity: Threats from biological agents (an essay in the Science and Life section), Daily Star, Dhaka, Bangladesh), September 6, 2011
<http://www.thedailystar.net/newDesign/news-details.php?nid=201235>
- Kuddus R.** *Bacillus anthracis* and anthrax (an editorial addressing the 2010 human anthrax outbreak in Bangladesh). The Daily New Nation, Dhaka, Bangladesh (September 8, 2010).
<http://www.ittefaq.com/issues/2010/09/08/news0928.htm>;

Peer-reviewed Research Articles

- El Ezzi A, El-Saidi M, **Kuddus R.** Long term stability of thyroid hormones and DNA in blood spots kept under varying storage conditions. *Pediatr Int.* 2010; 52: 631-639.
- Kuddus R,** Oakes J, Sharp C, Scott J, Slater K, Kirsi J, Kopp O, Burt W. Isolation of medically important fungi from Ginkgo biloba leaves and crude ginkgo supplements. *Int J Microbiol* 2008; 5(2):1-6.
- Kuddus R,** Toruno C, Khan A. Effect of microquestioning approach of teaching biological sciences on student learning and learning strategies. *Hawaii International Conference on Education Proceedings* 2008; 6:2272-2289.
- Islam F, McAdams-Jones D, **Kuddus R.** Human Organ Procurement for Transplantation: Some Ethical Issues. *Bioethics: Proceedings of the 9th UVU Conference by the Faculty* 2008; 9:59-67
- Kuddus R,** DeLuca N. DNA dependent oligomerization of HSV-1 regulatory protein ICP4. *J Virol* 2007; 81(17):9230-7.
- Kuddus R.** Islam F. McAdams-Jones D. Human organ procurement and for transplantation: Revisiting Incentives. *J Utah Acad Sci* 2007; 84:85094.
- Islam F, Gooch R, Wilson I, **Kuddus R.** Sustainable development: Reflection on some developing countries. *J Utah Acad Sci* 2006; 83:52-64.
- Butterfield T, (Adviser: **Kuddus R**). Solid organ theft: An investigation on the reality and implications. *Proc Nat Conf Undergrad Res* 2007, 21:886-891.
- Kuddus R.** *Ginkgo biloba* Medications: Prospects and Some Supplemental Problems. *J Utah Acad Arts Sci* 2005; 82:41-50
- Kuddus RH,** Metes DM, Nalesnik MA, Logar AJ, Rao AS, Fung JJ. Porcine cell microchimerism but lack of productive porcine endogenous retrovirus infection in naive and humanized SCID-beige mice treated with porcine peripheral blood mononuclear cells. *Transpl Immunol.* 2004 Jun-Jul;13(1):15-24.
- Kuddus RH,** Lee Y-H, Valdivia LA. A semiquantitative PCR technique for detecting chimerism in hamster to rat bone marrow xenotransplantation. *J Immunol Methods* 2004 Feb 15;285(2):245-51.
- Kuddus RH,** Gandhi CR, Rehman KK, Guo F, Watkins SC, Valdivia LA, Fung JJ. Some morphological, growth, and genomic properties of human cells chronically infected with porcine endogenous retrovirus (PERV). *Genome.* 2003 Oct; 46(5): 858-869.
- Kuddus R,** Patzer II JF, Lopez R, Mazariegos G, Meighen B, Kramer DJ, Rao AS. Clinical and laboratory evaluation of a bioartificial liver assist device for potential transmission of porcine endogenous retrovirus. *Transplantation* 2002; 73:420-429.
- Kuddus R,** Kuddus N, Dvorchick I. DNA polymorphism in the living fossil Ginkgo biloba from the Eastern United States. *Genome* 2002; 45:8-12.
- Sun H, Woodward JE, Subbotin VS, **Kuddus R,** Logar A, Schaefer AT, Aitouche A, Rao AS. The use of recombinase activation gene-2 deficient mice to ascertain the role of cellular and

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- humoral immune response in the development of chronic rejection. *J Heart Lung Transplant* 2002; 21:738-750.
- Kuddus R**, Patzer JF, Lopez R, Mazariegos GV, Meighen B, Kramer DJ, Fung JJ, Rao AS. Valuation of transmission of porcine endogenous retrovirus into patients subjected to hemoperfusion using an extracorporeal bioartificial liver support system. *Transplant Proc* 2001; 33:1976.
- Rao AS, Dvorchik I, Dodson F, Abu-Elmagd K, Schaefer AT, Ostrowski L, Valenti M, Zeevi A, **Kuddus R**, Starzl TE, Fung JJ. Donor bone marrow infusion in liver recipients: Effect on the occurrence of acute cellular rejection. *Transplant Proc* 2001; 33:1352.
- Gandhi CR, **Kuddus RH**, Nemoto EM, Murase N. Endotoxin treatment causes an upregulation of the endothelin system in the liver: Amelioration of increased portal resistance by endothelin receptor antagonism. *J Gastroenterol Hepatol* 2001; 16:61-9.
- Kuddus RH**, Nalesnik MA, Subbotin VM, Rao AS, Gandhi CR. Enhanced synthesis and reduced metabolism of endothelin-1 (ET-1) by hepatocytes-An important mechanism of increased endogenous levels of ET-1 in liver cirrhosis. *J Hepatol* 2000; 33:725-32.
- Gandhi CR, **Kuddus RH**, Uemura T, Rao AS. Endothelin stimulates transforming growth factor- β 1 and collagen synthesis in stellate cells from control but not cirrhotic rat liver. *Eur J Pharmacol* 2000; 406:311-8.
- Cicalese L, **Kuddus R**, Yacoub W, Subbotin V, Fung JJ, Starzl TE. Ischemia/reperfusion injury induces chronic changes in the small bowel. *Transplant Proc* 2000; 32:1315.
- Gandhi CR, Uemura T, **Kuddus R**. Endotoxin causes up-regulation of endothelin receptors in cultured hepatic stellate cells via nitric oxide-dependent and -independent mechanisms. *Br J Pharmacol* 2000; 131:319-27.
- Miki T, Lee YH, Tandin A, Subbotin V, **Kuddus R**, Rao AS, Fung JJ, Starzl TE, Valdivia LA. Xenogeneic humoral graft-vs-host disease following hamster-to-rat bone marrow transplantation. *Transplant Proc* 2000; 32:1036-7.
- Lee YH, Miki T, **Kuddus R**, Tandin A, Goller AL, Subbotin V, Fung JJ, Peach R, Valdivia LA, Rao AS. Administration of CTLA4-Ig enhances the incidence of hamster-to-rat xenogeneic bone marrow engraftment and alters the presentation of graft-vs-host disease. *Transplant Proc* 2000; 32:1032-3.
- Gandhi CR, **Kuddus R**, Subbotin VM, Prelich J, Murase N, Rao AS, Nalesnik MA, Watkins SC, DeLeo A, Trucco M, Starzl TE. A fresh look at augmentor of liver regeneration in rats. *Hepatology* 1999; 29:1435-45.
- Gabriel A, **Kuddus RH**, Rao AS, Gandhi CR. Down-regulation of endothelin receptors by transforming growth factor β 1 in hepatic stellate cells. *J Hepatol* 1999; 30:440-50.
- Rastellini C, Salam A, **Kuddus R**, Aitouche A, Subbotin V, Braun M, Leach R, Peach R, Fung JJ, Starzl TE, Rao AS. Prevention of T-cell activation by rhCTLA4-Ig and anti-CD40L monoclonal antibody results in indefinite islet allograft survival. *Transplant Proc* 1999; 31:1242-3.
- Salam A, Aitouche A, **Kuddus R**, Peach R, Fung JJ, Rao AS. The combined use of sublethal irradiation and costimulatory blockade to generate mixed bone marrow chimeras. *Transplant Proc* 1999; 31:1197-8.
- Cicalese L, Yacoub W, Subbotin V, **Kuddus R**, Fung JJ, Stanko R, Rao AS. Pyruvate inhibits the chronic damage which ensues after ischemia/reperfusion injury of kidneys. *Transplant Proc* 1999; 31:1033.

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- Rastellini C, Salam A, **Kuddus R**, Aitouche A, Braun M, Leach R, Peach R, Fung JJ, Starzl TE, Rao AS. Mechanisms underlying the development of T-cell tolerance following interruption of signaling at the CD28/B7 and CD40/gp39 interface. *Transplant Proc* 1999; 31:845.
- Gabriel A, **Kuddus RH**, Rao AS, Watkins WD, Gandhi CR. Superoxide-induced changes in endothelin (ET) receptors in hepatic stellate cells. *J Hepatol* 1998; 29:614-27.
- Kuddus R**, Gu B, DeLuca NA. Relationship between TATA-binding protein and herpes simplex virus type 1 ICP4 DNA-binding sites in complex formation and repression of transcription. *J Virol* 1995; 69:5568-75.
- Gu B, **Kuddus R**, DeLuca NA. Repression of activator-mediated transcription by herpes simplex virus ICP4 via a mechanism involving interactions with the basal transcription factors TATA-binding protein and TFIIB. *Mol Cell Biol* 1995; 15:3618-26.
- Kuddus R**, Schmidt MC. Effect of the non-conserved N-terminus on the DNA binding activity of the yeast TATA binding protein. *Nucleic Acids Res* 1993; 21:1789-96.
- Kuddus R**, Quddus MMA, Shafi M. Length frequency distribution and fishery of shingfish, *Heteropneustes fossilis*, Bloch. *Bangladesh J Zool* 1997; 16:74-79.
- Kuddus R**, Quddus MMA, Shafi M. Feeding and breeding habits of shingfish, *Heteropneustes fossilis* (Bloch). *Dhaka Univ J Biol Sci* 1996; 5:32-43.
- Kuddus, R.** (1984) Length-weight relationship and condition factor in the catfish *Heteropneustes fossilis* (Bloch). *Bangladesh J Zool* 1981; 12:49-52.

Book Chapters (selected entries)

- Islam F, McAdams-Jones D, **Kuddus R**. Human organ procurement for transplantation, some ethical issues. *Bio-ethics*, McDonald R, Smith S (Ed), Orem UVU Press (2008)
- Butterfield T, **Kuddus R**. Organ Sale and Theft, A Reality Check with an Ethical Perspective. *Ethics in Professions*, McDonald R, Yells D (Ed.), Orem, UVU Press (2007).
- Kuddus R**, Oakes J, Kopp O. Globalization and international molecular biotechnology transfer: ethical, technological and organizational issues. Keller D (ed). *Spheres of Globalization*, Orem, Utah, UVU Printing (2006).
- Kuddus, R.** "Fisheries, aquaculture and water resources of Bangladesh." Ali A, **Kuddus RH**, Andaleeb, S.S. eds. *Development Issues of Bangladesh II*. Dhaka: University Press, 2003.
- Kuddus RH**. Technology transfer and Biorevolution in the Third World, In *Development Issues of Bangladesh*, Ali A, Islam MF, **Kuddus RH**, eds. Dhaka: University Press Limited, pp 335-358.

Peer-reviewed Abstracts/Presentations (selected entries)

- Kuddus R**. A comparative analysis of biology literacy in the United States and the Indian Subcontinent. United States India Education Foundation Conference. Kochi, India (March 2012).
- Kuddus R**, Kirsi J and Holmes JD. Undergraduate Research Projects On Metagenomic Analysis Of Environmental Bacteria, American Society for Microbiology Conference of Undergraduate Educators, San Diego, CA (May 2010).
- Kuddus R**. On legalization of compensated solid organ donation and establishment of organ banks to govern organ procurement and distribution. Utah Academy of Arts Science and Letters Annual Conference, Saint George, Utah (April 2010).

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- Kuddus R.** Undergraduate molecular biotechnology research and research-teaching: A five year observation. American Society for Microbiology Conference of Undergraduate Educators, Fort Collins Colorado (May 2009).
- El- Ezzi A, **Kuddus R.** Analysis of thyroxin and thyrotropin stability in blood spots stored under varying conditions. Utah Academy of Sciences, Arts and Letters Annual Conference, Provo, Utah (April 2009).
- Kuddus R,** Safiullah SS. A Comparative Study of the Selected Activities of the State Science Academies. Centennial Meeting, Utah Academy of Science, Arts and Letters, Slat Lake City Utah (March 2008)
- Kirsi J, Kuddus N, Peterson A, Slater K, Oakes J, **Kuddus R.** Can a Salt-tolerant Bacteria be Used in Bioremediation of Oil Spills. American Society for Microbiology Intermountain Chapter Conference, Logan UT (March 2008)
- Wethal J, Toruno C, **Kuddus R.** Translation of internal ORF of a mammalian mRNA: Possibility of an IRES. Utah Conference for Undergraduate Research, Utah Valley State College, Orem UT (February 2008)
- Kuddus R.** Effect of microquestioning approach of teaching on student learning and learning strategies: Analysis of a survey outcome. Hawaii International Conference on Education, Honolulu HI (January 2008)
- Kuddus R. How Microquestioning Approach of Teaching Affect Student Learning and Learning Strategies. American Society for Microbiology Conference for Undergraduate Educators 2007. Buffalo New York May 18-20 2007.
- Butterfield T, **Kuddus R.** Organ sale and theft: An investigation on reality and implications, NCUR annual conference, San Rafael, CA (April 2007)
- Islam F, McAdams-Jones D, **Kuddus R.** Human organ procurement for tranplantaion: Revisiting incentives. Utah Academy of Arts, Sciences and Letters Annual Conference, Cedar City UT April 12, 2007
- Toruno C, **Kuddus R.** Expression and partial characterization a recombinant protein product of a primate-specific ORF, American Society for Microbiology, Intermountain Conference 2007, Pocatello, ID (March, 2007).
- Scott J, Oakes J, **Slater K,** Kirsi J, Kuddus R. Bacterial contamination of CAM derived from *Ginkgo biloba*. American Society for Microbiology, Intermountain Conference 2007, Pocatello, ID (March, 2007).
- Butterfield T, **Kuddus R.** Organ Sale and Theft: A reality check with an ethical perspective. Professional Ethics Conference 2006, UVU, Orem UT (December 2006).
- Toruno C, **Kuddus R.** Expression of Rat and Human Augmenter of Liver Regeneration (ALR) in Bacteria. UCUR 2007, Slat Lake City, UT (January 2007).
- Toruno C, **Kuddus R.** Ethical constraints in Xenotransplantation, Ethics Across the Curriculum Conference of UVU, Orem UT (October 2006).
- Kuddus R.** Isolation of fungi from *Ginkgo biloba* leaves and herbal supplement, ASM National Conference, Orlando FL 2006 (poster presentation).
- Toruno C, Kopp O, **Kuddus R.** Ethical problems in xenotransplantation. Center for Study of Ethics Conference, Orem, UT 2006 (oral presentation)
- Islam F, Gooch R, **Kuddus R.** Theory of Sustainable Development: Application to Some Asian Countries. Annual Conference of the Utah Academy of Science, Ephraim, UT 2006 (oral presentation).
- Walker D, **Kuddus R.** An outside shot at unraveling the mysteries of Waldenström's Macroglobulinemia, NCUR Annual National Conference 2006 (oral presentation).

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- Oakes J, **Kuddus R**. In search of a fast growing halophyle from The Great Slat Lake: A heavily polluted natural environment. NCUR National Conference 2006 (poster presentation).
- Oakes J, **Kuddus R**. Characterization of two halophiles isolated from the Great Slat Lake, ASM Intermountain Regional Conference 2006 (oral presentation)
- Oakes J, Kopp O, **Kuddus R**. Globalization of Biotechnology, Center for Study of Ethics Conference, Orem, UT 2005 (oral presentation)
- Kuddus, R**. *Ginkgo biloba*: Supplemental problems (and prospects), Utah Academy of Arts, Science and Letters, Annual Conference, Orem, UT (May 2005)
- Oakes J, Moss T, Christianson JT, Stargill B, Slater K. and **Kuddus R**. Probing Microbial Diversity by RFLP Analysis of PCR-amplified small subunit rDNA Fragments. American Society for Microbiology Intermountain Regional Conference, Ogden, UT (April, 2005).
- Sharp C, Burt W. Kopp O, Slater K, Kirsi J, Kuddus R. Isolation of Pathogenic Fungi from Healthy *Ginkgo biloba* Leaves and Ginkgo Herbal Preparations Sold in Health Food Stores. American Society for Microbiology Intermountain Regional Conference, Ogden, UT (April, 2005).
- Glazier R, Morris C, Prelich J, **Kuddus R**. Expression of Rat and Human Augmenter of Liver Regeneration (ALR) in Bacteria. American Society for Microbiology Intermountain Regional Conference, Ogden, UT (April, 2005).
- Sharp C, **Kuddus R**. Fungal infection of *Ginkgo biloba*. National Conference for Undergraduate Research, Lexington, Virginia (April 2005)
- Kuddus R**. Lack of release of infectious retroviral particles by reverse-transcriptase positive primary porcine cells. Intermountain Branch Meeting, American Society for Microbiology, Idaho Falls, Idaho, March 2004.
- Kirsi J, Kopp O, Burt W, Bracken M, Slater K, Robbins RR, Van Buren R, **Kuddus R**. Fungal blight of the living fossil *Ginkgo biloba*. Intermountain Branch Meeting, American Society for Microbiology, Idaho Falls, Idaho, March 2004.
- Kuddus R**, Nalesnik MA, Metes D, Gandhi C, Fung JJ. Infection of immunodeficient (SCID-beige) mice with porcine endogenous retrovirus. XIX International Congress of the Transplantation Society, Miami, FL, August 2003.
- Kuddus R**, Patzer JF, Fung JJ. Expression of porcine endogenous retrovirus genes in hepatocytes isolated from specific pathogen-free pigs for loading bioreactors used in a bioartificial liver support system. McGowan Institute for Regenerative Medicine Scientific Retreat and Strategic Planning Session, Nemaquin Woodlands, PA, February 2002.
- Kuddus R**, Rao AS, Nalesnik M, Fung JJ. Transmission of porcine endogenous retrovirus (PERV) in vivo to SCID-beige mice receiving porcine or porcine and human peripheral blood mononuclear cells. International Xenotransplantation Association Congress (IXA2001), Chicago, IL, September 2001.
- Kuddus R**, Tarara, M, Rao AS. Interspecies transmission of porcine endogenous retrovirus in vivo. Transplantation 2001 Joint Meeting, Chicago, IL, May 2001.
- Kuddus R**, Rao AS. Interspecific transmission of porcine endogenous retrovirus through cellular transplantation. Festschrift honoring Thomas E. Starzl, Pittsburgh, PA, April 2001.
- Uemura T, Chi X, **Kuddus R**, Gandhi, CR. Stellate cells produce hepatic growth inhibitory factor(s) other than TGF- β , IL-6, IL-1 β , and TNF- α upon stimulation with endotoxin. Festschrift honoring Thomas E. Starzl, Pittsburgh, PA, April 2001.
- Kuddus R**, Patzer II JF, Lopez R, Mazariegos GV, Meighen B, Kramer DJ, Fung JJ, Rao AS. Evaluation of transmission of porcine endogenous retrovirus (PERV) into patients

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- subjected to hemoperfusion using an extracorporeal bioartificial liver support system. XVIII International Congress of the Transplantation Society, Rome, Italy, August 2000.
- Kuddus RH**, Patzer II JF, Mazariegos GV, Kramer DJ, Fung JJ, Rao AS. No evidence of transmission of porcine endogenous retrovirus (PERV) into patients with end-stage liver failure subjected to hemoperfusion using an extracorporeal bioartificial liver support system (BLSS). Transplantation 2000 Joint Meeting, Chicago IL, May 2000.
- Gandhi, CR, Uemura T, **Kuddus R**. Endotoxin causes up-regulation of endothelin receptors in hepatic stellate cells via nitric oxide-dependent and -independent mechanisms. AASLD 51st Annual Meeting and Graduate Course, Dallas, TX, October 2000.
- Uemura T, Chi X, **Kuddus R**, Gandhi CR. Inhibition of DNA synthesis by endotoxin conditioned stellate cell medium is not mediated by via nitric oxide or transforming growth factor- β . AASLD 51st Annual Meeting and Graduate Course, Dallas, TX, October 2000.
- Kuddus R**, Daskivich T, Sun H, Subbotin V, Aitouche A, Lee YH, Valdivia L, Fung JJ, Rao AS. The temporal relationship between the cellular and humoral immune responses in the pathogenesis of transplant vascular sclerosis. ASTS, Chicago, IL, May 1999.
- Kuddus R**, Gandhi CR, Subbotin VS, Prelich J, Murase N, Rao AS, Nalesnik MA, Watkins S, DeLeo A, Starzl TE. Changes in hepatic and circulating levels of augmenter of liver regeneration (ALR) after partial hepatectomy: Alteration in ALR conformation may be a mechanism of its activation. ILTS Fifth Congress, Pittsburgh, PA, August 1999.
- Gandhi CR, Gabriel A, **Kuddus RH**, Watkins S, Rao AS, Nemoto EM. Mechanism of endothelin mediated portal hypertension: Amelioration by endothelin receptor antagonism. ILTS Fifth Congress, Pittsburgh, PA, August 1999.
- Gabriel A, **Kuddus RH**, Rao AS, Gandhi CR. Transforming growth factor- β 1-induced decrease in endothelin receptors and function in hepatic stellate cells: A compensatory mechanism in liver cirrhosis. ILTS Fifth Congress, Pittsburgh, PA, August 1999.
- Kuddus R**, Rojers J, Dodson F, Valdivia LA, Zeevi A, Fung JJ, Starzl TE, Rao AS. Evidence for long-term persistence of donor cell chimerism after baboon to neonatal pig bone marrow xenotransplantation. XVII World Congress of the Transplantation Society, Montreal, Quebec, Canada, July 1998.
- Salam A, **Kuddus RH**, Rao AS. Creation of mixed bone marrow chimeras by sublethal irradiation and combined blockade of CD28/B7 and CD40/CD40L costimulatory pathways. 5th International Symposium on Dendritic Cells in Fundamental and Clinical Immunology, Pittsburgh, PA, September 1998.
- Metes D, Rowe DT, Gambotto A, Zeevi A, Storkus W, Robbins P, Olson W, Ranieri E, Wilson C, Herr W, **Kuddus R**, Rao A, Fung JJ, Nalesnik MA. Response of T lymphocytes to dendritic cells infected with recombinant adenovirus expressing the Epstein-Barr virus latency protein LMP2: A preliminary report. 5th International Symposium on Dendritic Cells in Fundamental and Clinical Immunology, Pittsburgh, PA, September 1998.
- Salam A, Aitouche A, **Kuddus RH**, Rao AS. Creation of mixed bone marrow chimera by sublethal irradiation and combined blockade of CD28/B7 and CD40/CD40L costimulatory pathways. ASTP, Chicago, IL, May 1998.
- Gandhi CR, Subbotin VS, **Kuddus RH**, Prelich J, Rao AS, DeLeo A, Nalesnik MA, Starzl TE. Immunohistochemical localization of the augmenter of liver regeneration in the cytosol of adult rat liver hepatocytes. Annual Meeting of the American Society for Biochemistry and Molecular Biology and ASMB Satellite Meeting, Bethesda, MD, August 1998.

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- Gandhi CR, Gabriel A, **Kuddus RH**, Rao AS. Superoxide-mediated up-regulation of endothelin (ET) receptors in myofibroblastic stellate cells: A mechanism of portal hypertension. Vascular Biology '98, San Francisco, CA, April 1998.
- Kuddus R**, DeLuca NA. DNA dependent oligomerization of HSV1 ICP4. 21st International Herpes Virus Workshop, Dekalb, IL, July 1996.
- Gu B, **Kuddus R**, DeLuca NA. Repression of activator mediated transcription by HSV ICP4 via a mechanism involving complex formation with TBP and TFIIB. 20th International Herpes Virus Workshop, Croningen, The Netherlands, June 1995.
- Kuddus R**, Ansari RA. Problems of recombinant-DNA based biotechnology transfer to the developing countries. Socio-Economic Development of Bangladesh Conference, Pittsburgh, PA, August 1995.
- Milcarek CA, Lassman CR, Hall B, Matis S, **Kuddus R**, Toppmeyer D. Sequence downstream of the immunoglobulin gamma 2b secretion specific polyA site confer plasma cell type regulated expression. RNA Processing Meeting, Cold Spring Harbor, NY, June 1991.

INVITED PRESENTATIONS (selected entries):

- Kuddus R**. On Modernization of Traditional Herbal Medications in Bangladesh, First Ayurvedic National Symposium (AYNUS) Bangladesh, May 2012, Dhaka, Bangladesh.
- Kuddus R**. Careers in Biotechnology. Young Biotechnologists Bangladesh Conference, April 2012, Sylhet, Bangladesh.
- Kuddus R**. Modern Biology Teaching and Learning: Some Challenges and Prospects, USA Center, September 2011, Dhaka, Bangladesh.
- Kuddus R**. Life and literary works of Kazi Nazrul Islam, the national poet of Bangladesh. Presented at the Celebration of 150th Birth Anniversary of Rabandranath Tagore and 111th Birth Anniversary of Kazi Nazrul Islam; Organized by Salt Lake City Public Library, Salt Lake City Utah, October 30, 2010.
- Kuddus R**. From individuals to the community: A unified study of the ethics of conservation of life. The keynote speech given at Utah Valley University Ethics Awareness week, September 22, 2010 at UVU Library Auditorium.
- Kuddus R**. Boys in Biotechnology. Empowering Your Tomorrow Conference (Boys section), Utah Valley State College (January 2008).
- Kuddus R**. Girls in aquatic and marine biology. Equity in Education Conference, Utah valley State College 2006, Orem UT.

Panel Moderations/Presentations (selected entries)

- Kuddus R** (moderator), Uddin Imam Shuaib, Shukairat Imam T, Salah AM. Muslims in Utah. Mormonism and Islam: Finding Communities among Abrahamic religions Conference, organized by Utah Valley University, Orem UT, April, 2011.
- Kuddus R** (moderator), Holmes J and Kopp O. Should nutraceuticals be regulated. Conference by the Faculty, Utah Valley State College, January 2009.
- Kuddus R**, Woodworth W, Jackson D, Walton L, West K. Interfaith discussion and harmony in the community. Provo Utah (March 2008).
- Kuddus R**, Islam F, Rushforth N. Ethics of organ donation. Conference by the Faculty, Utah Valley State College, January 2008.
- Kuddus R** (moderator), Kopp O. Ethics of genetic manipulation of organisms. Ethics Awareness Week of the Utah Valley State College (November 2007).

Ruhul H. Kuddus, Ph.D.
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TEACHING RESPONSIBILITIES:

GEB 503: Oncology and Virology (occasionally)
BIOL 4450 and BIOL 4455: Immunology and Immunology Laboratory (Summer)
BIOL 3550: Molecular Biology (every Fall)
MICR 2060: Microbiology for Health Professions (every Fall and Spring)
BIOL 1010: Introductory Biology (Summer)

PROFESSIONAL RESEARCH ACTIVITIES (GRANTS):

Funded Grants (selected entries)

Fulbright Scholar Grant (2011-2012), Grant Title: Addressing the problem of microbial drug-resistance through education and application of molecular diagnostic tools; Funding agency: US Department of State.

Community of Engaged Learners (2009), Grant title: Establishment of an open-access international journal on human progress, Role: Principal Investigator, Funding agency: Utah Valley University

Community of Engaged Learners (2008), Grant title: Biotechnology tour of engaged learners, Role: Principal Investigator, Funding agency: Utah Valley State College

UVU Presidential Research Grant (2003, 2004, 2005, 2006, 2007, 2008, 2009 and 2010), Grant Title: Undergraduate Research Initiatives in Microbial and Molecular Biology, Role: Principal Investigator, Funding agency: Utah Valley State College

Scholarly Activity Grants (SAC, 2004, 2005, 2006, 2007, 2008), Grant Title: Developing a textbook in Microbiology for Health Professions, Role: Role: Principal Investigator, Funding Agency: School of Health and Science, UVU

UVU Foundation Grant (2003, 2005), Grant Title: Acquisition of separation technologies at UVU (2005), Grant Title: Tissue Culture Facility Development at UVU (2003), Role: Principal Investigator, Funding Agency: UVU Foundation, Time period: 10/2003-10/2004

Veteran Administration Merit Award (2001-2003); Grant Title: Roles of Augmenter of Liver Regeneration (ALR) in Liver Regeneration, Role in Project: Co-investigator (PI- C.R. Gandhi, Ph.D.), Funding Agency: Veterans Administration of USA.

Liver Transplantation Grant (1996-2001). Grant Title: Orthotopic Liver Transplantation in Human (DK29961-18), role in Project: Co-investigator (PI-T.E. Starzl, M.D. Ph.D.). Funding Agency: National Institutes of Health.

Organ Transplantation Grant (1996-2001). Grant Title: Combined Bone Marrow and Organ Transplantation in human, Role in Project: Co-investigator (PI- J.J. Fung, M.D. Ph.D.), Funding Agency: National Institutes of Health.

Current Research Activities

Molecular Epidemiology of Prostate Cancer
Bioethics of Organ Donation in Transplantation Medicine
Microquestioning Approach in Teaching and Learning
Use of halophiles for Bioremediation

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OTHER ACTIVITIES (SERVICES):

Member of University Committees

University Reflection Center (2012-Present)
University Senate (as a member of the Election Committee) (2009-2011)
Equity in Education Committee, UVU (2003-2011)
Ethics Across the Curriculum Faculty Advisory Committee, UVU (2008-present)
Summer University Committee (2006-2011)
American Federation of Teachers (as Vice President, UVU Chapter) (2007-2010)
Institutional Review Board Committee, UVU (2003-2006)

Member of the Editorial Board

Internet Journal of Microbiology

Reviewer of Journals

Annals of Botany (Annals of Botany Company)
Biochemical Genetics (Springer)
Cell Biology International (Elsevier)
Cellular and Molecular Biology Letters (Springer)
European Journal of Hematology (Blackwell)
Journal of Biomedical Technology (Sevas Publications)
Journal of Rapid Methods and Automation in Microbiology (Blackwell)
ScienceNOW (Science-AAAS)
Trends in Genetics (Elsevier)

Reviewers of University-level Text Books (selected entries)

Microbiology (McGraw Hill, John Wiley, Garland Sciences)
Molecular Biology (McGraw Hill)
General Biology (McGraw Hills, John Wiley, Prentice Hall, Pearson Benjamin Cummings, WW Norton and WH Freeman)

Grant Reviewer

National Science Foundation
States of New York Sea Grant
State of Connecticut Sea Grant

Community Services

Utah Science Fair (as a judge) (2005- present)
Utah Valley Interfaith Council (as a member 2007-present)

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REFERENCES:

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Sam Rushforth, Ph.D. Dean, College of Science and Health, Utah Valley University, 800 W University Parkway, Orem UT 84058; Phone: 801- 863-8739, E-Mail: sam.rushforth@uvu.edu

Ian Wilson, Ph.D. Vice President of Academic Affairs, Utah Valley University, 800 W University Parkway, Orem UT 84058, Phone: 801 863-8951, E-Mail: ian.Wilson@uvu.edu

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